

L 04943-67 E/T(1) GW
ACC NR: AP6028221

(A)

SOURCE CODE: UR/0154/66/000/001/0123/0130

43
41
15

AUTHOR: Pavlov, A. A.

ORG: Leningrad State University im. Zhdanov (Leningradskiy gosudarstvenny universitet)

TITLE: Calculation of certain cartographic projections on an electronic computer

SOURCE: IVUZ. Geodeziya i aerofotos"yemka, no. 1, 1966, 123-130

TOPIC TAGS: electronic computer, computer application, computer language, algorithmic language, algorithm, cartography

ABSTRACT: The author derives the algorithm for calculating a Mercator projection, the algorithm for calculating an oblique equal-angle azimuthal (stereographic) projection of an ellipsoid, presents the program of calculating this projection in ALGOL, derives the algorithm for calculating an oblique central (gnomonic) projection of an ellipsoid, and the algorithm for calculating an oblique equidistant azimuthal projection of an ellipsoid for a map of the world. The transition from the program written in ALGOL to a program coded in the language of a specific computer is accomplished automatically, without the participation of a programmer, by means of a translator with which a given computer should be equipped. Thus, having the

Cord 1/2

Cord 2/2

PAVLCV, A.A., docent

Converting coordinates from one projection to another. Izv. vys.
ucheb. zav., good. t. aerof. 1995 '94. (MIRA 1815)

1 Leningradskiy gosudarstvennyy universitet. Rekomendovana
kafedroy kartografii.

LEYKIN, Ye.R.; GUTINA, S.L.; CHEREMUKHIN, I.K.; GRANKINA, L.G.;
PAVLOV, A.A.; NOVOSELOVA, A.A.

Introducing the battery method for ion-exchange purification
of xylose syrups. Gidroliz. i lesokhim. prom. 16 no.2:15-16
'63. (MIRA 16:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidro-
liznoy i sul'fitnospirtovoy promyshlennosti (for Leykin,
Gutina). 2. Ferganskiy gidroliznyy zavod (for Cheremukhin,
Grankina, Pavlov, Novoselova).
(Xylose) (Ion exchange)

PAVLOV, A.D. (Sverdlovsk)

Study of the role of the reticuloendothelial system of the kidneys in erythropoiesis using specific cytotoxic sera.
Pat. fiziol. eksp. ter. 7 no.5:63-67 S-0'63 (MIRA 17:2)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. Ya.G. Uzhanskiy) Sverdlovskogo meditsinskogo instituta.

PAVLOV, A.D., inzhener.

Saving metal at electric power plants. Energetik 1 no.1:10 Je '53.
(MLRA 6:8)
(Electric power plants)

SIDOROV, V.V.; PAVLOV, A.F.; FAKHRUTDINOV, R.Yu.

Use of phase techniques in studying polarization effects apparent
in the reflection of radio waves from meteor trails. Izv. vys.
ucheb. zav.; radiofiz. 8 no.2:234-243 '65. (MIRA 18:6)

1. Kazanskiy gosudarstvennyy universitet.

ACCESSION NR: AR4022436

S/0058/64/000/001/A029/A029

SOURCE: RZh. Fizika, Abs. 1A274

AUTHOR: Kaipov, D. K.; Pavlov, A. F.

TITLE: Fast-slow coincidence circuit with stabilization

CITED SOURCE: Tr. In-ta yadern. fiz. AN KazSSR, v. 6, 1963, 79-89

TOPIC TAGS: coincidence circuit, fast slow coincidence circuit,
coincidence circuit with stabilization, stabilized coincidence cir-
cuit, Gamma resonance scattering, resolution time, pulse height ana-
lyzer, stabilization coefficient

TRANSLATION: A fast-slow coincidence recording unit is described,
especially developed for experiments on resonance scattering of gam-
ma quanta by nuclei, in which a small resolution time is required.
The installation consists of two scintillation transmitters, a fast

Cord 1/2

ACCESSION NR: AR4022436

coincidence circuit, an amplifier, a discriminator, two analyzers, a slow coincidence circuit, and a mechanical counter. The equipment employs FEU-33 photomultipliers with stilbene crystals. The fast coincidence circuit is a classical current circuit with resolution time 2.9×10^{-9} sec. The analyzers are constructed in accordance with the principle of the AADO commercial pulse-height differential analyzer. A special circuit is used to stabilize the photomultiplier gain. The stabilization coefficient of the circuit reaches several hundred. The installation was checked for stability by measuring the number of coincidences of gamma quanta emitted by a Co⁶⁰ source. The reproducibility of the data is satisfactory. The instability in the number of coincidences did not exceed 1% in 11 hours of continuous operation. L. I.

DATE ACQ: 03Mar64

SUB CODE: PH, SD

ENCL: 00

Card 2/2

PAVLOV, V.P.; K. ZHABAEV, N.

Amplification station situated near the village of
interconnected for communications. Located about 1 km. from the village.
no.1:210-211 Jack. Date.

1. Technical characteristics:

VASIL'YEV, A.P., inzh.; PAVLOV, A.P., inzh.

Erection of an earthfill dam at the upper Tuloma River hydroelectric development. Energ. stroi. no. 142-51 '65. (MIRA 18:7)

L 53796-65 EWT(d)/EWT(1)/EWG(v)/EWA(d)/EEC-4/EEG(t)/EWA(h) Pg-1/Pg-6/Pg-5
Pg-4/Pag-2/Peb/Pi-4/Pi-4 JRB/GW UR/0141/65/008/002/0234/0234
ACCESSION NR: AP5014500 523.164.85 53 52 8

AUTHOR: Sidorov, V. V.; Pavlov, A. F.; Fakhrutdinov, R. Yu.

TITLE: The use of a phase technique in studies of polarization phenomena associated with radio wave reflection from meteor trails

SOURCE: IVUZ. Radiofizika, v. 8, no. 2, 1965, 234-243

TOPIC TAGS: radio wave reflection, meteor trail, polarization phenomenon, circular polarization antenna

ABSTRACT: Polarization phenomena associated with radio wave reflections from meteor trails are studied by comparing the signal phases in a weakly directional circularly polarized antenna using a direct phase method. This technique makes it possible to separate polarization phenomena from diffraction and wind effects and to observe polarization phase shifting in radio wave reflections of all types regardless of duration. A method of indicating polarization phenomena in observations of meteor trail drifts is proposed; it is noted that the existing theory of polarization phenomena in saturated trails, based on the

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I-53796-65

ACCESSION NR: AP5014500

assumption of a "metallic" trail model, does not fully explain the polarization phenomena observed in regions of transition to denser trails. It is concluded that if the Earth's magnetic field is responsible for the anisotropy observed in the trails, which produce prolonged reflections, then the trail structure should be less saturated than that encountered in the case of ambipolar diffusion.

Orig. art. has: 8 figures.

[JR]

ASSOCIATION: Kazanskiy gosudarstvennyy universitet (Kazan State University)

SUBMITTED: 06Ju163

ENCL: 00

SUB CODE: AEC

NO REF Sov: 004

OTHER: 007

ATD PRESS: 4023

A
Card 2/2

41443

S/120/62/000/005/025/036
E192/E382

7.4160
AUTHORS: Kaipov, D.K., Kozhaspayev, N. and Pavlov, A.F.
TITLE: Stabilization of the gain of photomultipliers
PERIODICAL: Pribory i tekhnika eksperimenta, no. 5, 1962,
151 - 153

TEXT: The stabilization system is suitable for spectro-metric and time-resolving photomultipliers and is based on adjusting their supply voltage as a function of a control signal produced by a coincidence circuit. The stabilization system is illustrated in Fig. 1. The amplifier, based on tube J_1 , has a gain of about 10 and the pulses to this ($J_1 = T_1$), has a gain of about 10 and the pulses to this amplifier are fed either from the anode or the dynode of the photomultiplier. The amplifier is stabilized by a strong negative feedback. The coincidence circuit, based on T_2 , is also very stable and its pedestal is low. One of the inputs of the coincidence circuit receives a pulse from the univibrator based on T_{10} . After passing through the circuit, it is applied

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E192/E382

Stabilization of

to the amplitude-detector T_3 , whose time constant $R_{16}C_5$ is matched with the time constant of the high-voltage rectifier. This is followed by a cathode-follower T_4 . A vibrating relay PII -5 is used as a voltage-chopper, the reference-voltage level being provided by a divider R_{18}/R_{19} . The reference voltage is derived from a 75-V stabilizer tube T_8 , which is first stabilized by T_9 (see Fig. 1). The low-frequency amplifier, based on T_5 , T_6 and T_7 , produces a signal which is applied to the phase-detector, which determines the sign of the difference and produces a direct voltage proportional to the difference between the direct component of the detected pulse voltage due to the standard sparks and the reference source. The phase-detector is coupled to the rectifier and connected in series with the source of the reference voltage. These two are then connected into the grid circuit of the first tube of the DC amplifier. The phase-detector produces a maximum output of

Card 2/13

Stabilization of

S/120/62/000/005/025/036
E192/E382

\pm 50 V and this is sufficient for controlling the high voltage over a range of \pm 500 V. The standard pulse flashes or sparks are produced by a thyratron, type TX -4 $\overline{5}$ (TKh-4B) (see Fig. 1). This is connected across the anode load of T_{11} . T_{11} and T_{12} are provided with strong negative feedback. The above stabilization circuit can be used successfully for photomultipliers operating in "fast-slow" coincidence systems. There are 5 figures.

ASSOCIATION: Institut yadernoy fiziki AN KazSSR
(Institute of Nuclear Physics of the AS KazSSR)

SUBMITTED: August 28, 1961

Card 3/13

MEDOVY, Alekseandr Iosifovich; PAVLOV, A.G., red.; ROMANOVA, N.I.,
tekhn.red.

[Usurious capital in the agriculture of India] Rostovskchi-
cheskii kapital v sel'skom khoziaistve Indii. Moskva, Izd-vo
In-ta mezhunarodnykh otnoshenii, 1961. 197 p. (MIRA 14:12)

(India--Agricultural credit)

PRZHIALKOVSKIY, Veniamin Ignat'yevich; PAVLOV, A.G., red.; ROMANOVA, N.I.
tekhn. red.

[Airplane and rocket industry of the U.S.A.] Aviatsionno-raketnaya
promyshlennost' SShA. Moskva, Izd-vo In-ta mezhdunarodnykh otnoshenii,
1961. 229 p. (MIRA 14:12)

(United States--Airplane industry)
(United States—Rockets (Aeronautics))

PAVLOV, A.G.

Changing production procedures for pipes with a diameter of
60 x 1 mm. Sbor.rats.predl.vnedr.v proizv. no.5:30-31 '60.

1. Pervoural'skiy Novotrubnyy zavod.
(Pipe mills)

PAVLOV, A.G.

Recommended by the Leningrad council of innovators. Mashinostroytel'
no. 5:16-17 My '64. (MIRA 17:7)

PAVLOV, A.G.

Sectional cutting blade. Mashinostrcitel' no.3:29 Mr '64.
(MIRA 17:4)

GONCHAROV, Leongard Vasil'yevich; KIRICHENKO, Galina Abramovna;
TRET'YAKOV, P.N., otv. red.; PAVLOV, A.G., red.;
YAZLOVSKAYA, E.Sh., tekhn. red.

[The "Common Market" and African countries] "Obshchii rynok"
i strany Afriki. Moskva, Izd-vo vostochnoi lit-ry, 1963. 70 p.
(MIRA 16:4)

(European Economic Community countries—Foreign economic relations--
Africa)

(Africa—Foreign economic relations—European Economic Community
countries)

SVANIDZE, Ivan Aleksandrovich; YASTREBOVA, I.P., otv. red.; PAVLOV,
A.G., red.; MIKHLINA, L.I., tekhn. red.

[Agriculture of Northern Rhodesia] Sel'skoe khozisistvo
Severnoi Rodezii. Moskva, Izd-vo vostochnoi lit-ry, 1963.
259 p. (MIRA 16:7)
(Rhodesia, Northern--Agriculture--Economic aspects)

PAVLOV, A.G.

Suggestions of the Leningrad Innovator Council. Mashinostroitel' no.9:
25-26 S '63. (MIRA 16:10)

(Leningrad)---Technological innovation

PAVLOV, A. G.

Bee Culture-Equipment and Supplies

"Supplementary box for a 12-frame beehive". Pchelovodstvo, 29, No. 5. 1952

9. Monthly List of Russian Accessions, Library of Congress, August ² 1973, Uncl.

PAVLOV, A.I., arkhitektor.

Standard blocks in earthquakeproof building. Stroi. prom. 35
no.2:19-21 F '57. (MLRA 10:3)
(Earthquakes and building)
(Building blocks)

KULIKOVSKIY, V.K.; PAVLOV, A.I.

Graniteoids in Amvrosiyevka District of the Donets Basin.
Zap. Ukr. otd. Min. ob-va [no.1]:149-152 '62.

(MIRA 16:8)

I. Kiievskiy gosudarstvennyy universitet, kafedra poleznykh
iskopayemykh.

PAVLOV, A.I., kand. tekhn. nauk, dotsent

Use of the international Tex System for the evaluation of the
thinness of textile materials. Izv. vys. ucheb. zav.; tekhn.
leg. prom. no.4:175-177 '63. (MIRA 16:10)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.

PAVLOV, A.I., podpolkovnik meditsinskoy sluzhby

Use of the small intestine in plastic surgery of the urinary tract.
Voen.-med.zhur. no.10:75 O '59. (MIRA 13:3)
(URINARY ORGANS--SURGERY)
(INTESTINES--TRANSPLANTATION)

BIRINBERG, I.M.; PAVLOV, A.I.; PERMOV, A.A.

Model 250-ton oxygen converter. Stal' 23 no.7:601 J1 '63.
(MIRA 16:9)

1. Gosudarstvennyy soyuznyy institut po proyektirovaniyu agregatov
staleliteynogo i prokatnogo proizvodstva dlya chernoy metallurgii.
(Converters)

PAVLOV, A.I. (Moskva, I-41, prosp. Mira, d.68, kv.122)

Plastic surgery of the bladder using the small intestine; experimental study. Nov. khir. arkh. no.12:3-6 D '61. (MIRA 14:12)

1. Nauchnyy rukovoditel' raboty - zav. kafedroy fakul'tetskoy khirurgii Khar'kovskogo meditsinskogo instituta prof. K.I.Pikin.
(BLADDER--SURGERY) (INTESTINES--TRANSPLANTATION)

ACC NR: AP7002162

SOURCE CODE: UR/0089/66/021/006/0439/0445

AUTHOR: Anatskiy, A. I.; Bogdanov, O. S.; Bukayev, P. V.; Vakhrushin, Yu. P.;
Malyshov, I. P.; Malivayko, G. A.; Pavlov, A. I.; Buslov, V. A.; Khal'chitskiy, Ya. P.

ORG: none

TITLE: Linear induction accelerator

SOURCE: Atomnaya energiya, v. 21, no. 6, 1966, 439-445

TOPIC TAGS: linear accelerator, electron accelerator, mev accelerator

ABSTRACT:

A description is given of the LIU-3000 linear induction accelerator, which was designed at the Scientific-Research Institute for Electro-Physical Devices (NIIEFA) in 1962. The LIU-3000 was designed for an energy of 3 Mev and a pulse current of up to 200 amp. Its operation for electron acceleration is based on the utilization of a rotational electric field, created in a system consisting of several circular transformers. The maximum possible current of the accelerated electrons in such an accelerator with focusing sufficient to compensate for the repelling force of the space charge, is determined basically by the power of the commuting element in the primary circuit of the inductor. The LIU-3000's power can be brought to 1000 amp/pulse, what is impossible in other types of accelerators. The

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UDC: none

ACC NR: AP7002162

LIU-3000 consists of a series of accelerating sections (the first of which was adjusted in 1963). Each section consists of 12 inductors which are vacuum sealed to permit a vacuum of 5×10^{-6} torr inside. The sections are connected in pairs into units with the aid of special pipes. Pumping and observation devices are situated between the units. The following data were obtained from tests: maximum current of accelerated electrons, 160 amp; maximum energy of injected electrons, 300 kev; energy of accelerated electrons, 485 kev; duration of the current pulse of the gun, 2.2 μ sec; pulse duration of the accelerating voltage, 0.35 μ sec; duration of the pulse front of accelerating voltage, 0.18 μ sec; average gradient of accelerating field, 310 kv/m; and diameter of the accelerated beam (at the exit), 2 cm. In addition to the authors, other staff members of NIEFA who participated in designing and testing the LIU-3000 were R. A. Aleksayev, L. M. Andrezen, A. V. Belyayeva, O. D. Volodin, M. A. Gachev, V. K. Gagan-Torn, N. K. D'yachenko, N. V. Toloknov, Yu. V. Lebedov, A. A. Markhal', P. G. Morayev, A. V. Popkovich, A. N. Popov, S. V. Promyshlynyev, G. L. Saksaganskii, Ya. L. Mekhalis, and A. T. Chasnikov. The authors thank V. I. Veksler and V. P. Saratsev for their help with the work. Orig. art. has: 4 formulas and 11 figures.

SUB CODE: 20/ SUER DATE: 14Apr66/ ORIG REF: 003/ OTB REF: 001/
ATD PRESS: 5112

Cord 2/2

1. PAVLOV, A. I.
2. USSR (600)
4. Shipbuilding
7. Technology of producing glued assemblies for river boats. Trudy tsNII.P, No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PAVLOV, A. I.

ARKHANGEL'SKIY, B.A.; PAVLOV, A.I.; KUZNETSOV, P.I., redaktor; VOLCHOV,
K.M., tekhnicheskiy redaktor

[Glues and glued wood construction in building river ships] Klei
i dereviannye kleevye konstruktsii v rechnom sudostroenii. Lenin-
grad, Izd-vo Ministerstva rechnogo flota SSSR, 1953. 214 p.

[Microfilm] — (MIRA 7:10)

(Glue) (Shipbuilding)

PAVLOV, Aleksandr Ivanovich; CHERNOGUZ, D.A., redaktor; SHAURAK, Ye.N.
redaktor; DVORAKOVSKAYA, A.A., tekhnicheskiy redaktor

[Stability of glued constructions in shipbuilding] Prochnost'
kleennykh sudovykh konstruktsii. Leningrad, Gos. soiuznoe izd-vo
sudostroitel'noi promsh., 1955. 183 p. (MIRA 9:1)
(Glue) (Shipbuilding)

PAVLOV, Aleksandr Ivanovich; GORYANSKIY, Yu.V., nauchnyy red.;
STOLYARSKIY, L.L., red.; TSAL, R.K., tekhn.red.

[Small vessels built of plywood and cardboard] Malkie
suda iz fanery i kartona. Leningrad, Gos.soiuznoe izd-vo
sudostroit.promyshl., 1959. 103 p. (MIRA 13:1)
(Boatbuilding--Equipment and supplies)

PAVLOV, A.I., kand.tekhn.nauk

Small boats to be used for recreation. Sudostroenie 25 no.2:15-19
(MIRA 12:4)
F '59.
(Boats and boating)

PAVLOV, A.I., kand.tekhn.nauk

Gluing marine metal structures. Sudostroenie 25 no.12:3c-41
D '59. (MIRA 13:-)
(Shipbuilding--Supplies) (Epoxy resins)

PAVLOV, A.I., kand.tekhn.nauk

Design of twin-hull boats (catamarans). Sudostroenie 26 no. 9:37-43
S'60. (MIRA 13:10)
(Boats and boating)

PHASE I BOOK EXPLOITATION

SOV/5926

Pavlov, Aleksandr Ivanovich, and Yekaterina Leonidovna Poting

Primeneniye alyuminiyevykh splavov v sudostroyenii (The Utilization of Aluminum Alloys in Shipbuilding) Leningrad, Sudpromgiz, 1961. 290 p. 3300 copies printed.

Reviewers: D. I. Baykov and B. V. Rybalko; Scientific Ed.: B. V. Rybalko; Ed.: A. I. Kuskova; Tech. Ed.: R. K. Tsal.

PURPOSE: This book is intended for technical personnel of design bureaus and plants and may also be used as a textbook by students in shipbuilding departments at schools of higher education and teknikums.

COVERAGE: Aluminum alloys used in shipbuilding in the form of plates, shapes, and special semifinished products are reviewed. The principles of metalworking and various types of joints used for aluminum-alloy parts are discussed. Primary attention is given to the use of aluminum alloys in marine vessels of various types and purposes. Special features of constructions, parts, and equipment made of aluminum alloys and certain methods applied to determine the dimensions

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The Utilization of Aluminum (Cont.)

SOV/5926

of hull joints are also discussed. No personalities are mentioned. There are 89 references: 31 Soviet, 33 English, 24 German, and 1 Czech.

TABLE OF CONTENTS:

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Ch. I. Aluminum Alloys Used in Shipbuilding	
1. Aluminum and its alloys	9
2. Mechanical properties of aluminum alloys	17
3. Rolled plates and sheets, shapes, tubes, bars, wire, and foil made of aluminum alloys	19
4. Corrosion of aluminum and its alloys	21
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6. Protection of joints between aluminum alloys and other materials against corrosion	27

Card 2/7

PAVLOV, A.I., kand.tekhn.nauk

Press-worked elements in ship structures. Sudostroenie 27
no.9:12-18 S '61. (MIRA 14:11)
(Ship fitting)
(Bulkheads (Naval architecture))

YAGNAKOV, A.F., inzh.; PAVLOV, A.I., inzh.; TARANUKH, I.S., inzh.

Pilot plant testing of the auger boring method for mining coal
at the No.1 "Begichevskaya" Mine of the Tula-ugol' Combine.
Ugol' 39 no.10:25-30 O '64. (MIRA 17:1.)

1. Podmoskovnyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy ugol'nyy institut i Trest Kalininugol'.

L 53740-61 EWT(m)/EPF(c)/EPR/EWP(j)/T/EWA(c) PC-4/Pr-4/Ps-4 RPL
NW/JW/RM

ACCESSION NR: AP5015287

UR/0286/65/000/009/0066/0067
678.634/.639.002.2

AUTHOR: Korshak, V. V.; Tseytlin, G. M.; Pavlov, A. I.; Izynehev, A. A.

TITLE: Preparative method for heat-resistant polymers. Class 39, No. 170659

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 66-67

TOPIC TAGS: polybenzoxazole, heat resistant polymer, preparation

ABSTRACT: An Author Certificate has been issued for a preparative method for heat-resistant polymers (polybenzoxazoles) involving the polycondensation of aromatic dicarboxylic acids (or esters thereof) with aromatic amines. To produce heat-resistant and soluble polybenzoxazoles, the aromatic amine to be used is bis(3-amino-4-hydroxyphenyl)propane or bis(3-amino-4-hydroxy-5-methylphenyl)propane. [SM]

ASSOCIATION: Moskovskiy khimiko-tehnologicheskiy institut im. Mendeleyeva
(Moscow Chemical Engineering Institute)

SUBMITTED: 27Apr64
NO REF SOV: 000

ENCL: .00
CTHER: 000

SUB CODE: cc,ce
ATD PRESS: 4019

Cord 1/1

Pavlov A.I.
CHERNOMORDIK, G.I., prof., doktor tekhn. nauk; PAVLOV, A.I., inzh.

Problems of organizing the movement of high-speed freight trains.
Trudy MIIT no.86:43-73 '57. (MIRA 11:1)
(Railroads--Management)

PAVLOV, A. I. (Leningrad).

Green corners. Put' i put. khoz. no.6:31 Je '58. (MIRA 11:6)

1. Starshiy inzhener zashchitnykh lesosazhdeniy.
(Railroads)

PAVLOV, A. I. Cand Tech Sci -- (diss) "Study of problems of the organization
~~(the movement of express trains)~~ of traffic of fast freight cars." Mos, 1959. 14 pp (Min of Railways
of USSR. Mos Order of Lenin and Order of Labor Red Banner Inst of Engineers of
Railroad Transport im I. V. Stalin), 180 copies (KL, 52-59, 122)

21

PAVLOV, A.I., gornyy inzhener; DUBYNIN, N.G., kandidat tekhnicheskikh nauk.

Bottom cut practice in the stopes of the Tashtagol mine. Gor. zhur.
(MLRA 8:7)

no.3:53-54 Mr '55.
(Tashtagol--Mining engineering)

DUBYNNIN, N.G., kandidat tekhnicheskikh nauk; DEKHTYAREV, S.I., inzhener;
PAVLOV, A.I., inzhener; VOLGOV, A.N., inzhener

Breaking ore by ring drilling in the Tashtagol mine. Gor.zhur. no.7:
(MIRA 8:8)
38-40 Jl '55.
(Tashtagol--Iron mines and mining)

SHABEL'NIKOV, G.P.; PAVLOV, A.I.

Use of metal supports in screen areas. Trudy Inst.gor.dela.
Sib.otd.AN SSSR no.1:155-159 '58. (MIRA 12:11)
(Mine timbering)

14546-66 EWT(m)/EWP(v)/T/EWP(t)/
EWP(k)/EWP(b) JD/HM

SOURCE CODE: UR/0413/66/000/001/0134/0134

ACC NR: AP6005386

INVENTOR: Sedykh, V. S.; Pashkov, P. O.; Kofman, A. P.; Gokhshteyn, B. Ye.;
Pavlov, A. I.; Likhachev, G. F.

ORG: none

TITLE: A method of producing three-layer metal plates. Class 49, No. 177759

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 1, 1966, 134

TOPIC TAGS: metal plate, three layer plate, clad plate, plate cladding, explosive
cladding

ABSTRACT: This Author Certificate introduces a method of producing three-layer metal plates by explosive welding. Explosive charges are placed on the outer surface of the plates to be welded. In order to increase productivity, both outer plates are welded to the center plate simultaneously by a charge detonated at one point. In order to improve the quality of the bond, a centering prism is set up on the upper edges of the plates so that one edge of the prism faces the detonator. Orig. art. [WW] has: 1 figure.

SUB CODE: 11/ SUBM DATE: 23Mar64/ ATD PRESS: 4/97
Cladding 18

Ge
Card 1/1

UDC: 621.791.014-419.5

L 05006-67 EWT(m)/EWP(w)/EWP(x)/ETI IJP(c) JD
ACC NR AR6031068 SOURCE CODE: UR /0277/66/000/007/0002/0002

AUTHOR: Volchkov, V. M.; Pavlov, A. I.; Pashkov, P. O.

TITLE: Concerning a case of the realization of theoretical strength, §

SOURCE: Ref. zh. Mashinostr mat konstr i raschet detal mash. Gidropr,
Abs. 7. 48. 7

REF SOURCE: Sb. Materialy Nauchn. konferentsii. Sovnarkhoz Nizhne-Volzhsk.
ekon. r-na. Volgogradsk. politekhn. in-t. T.I. Volgograd, 1965, 319-323

TOPIC TAGS: strength, theoretical strength, metal deformation, material
deformation, metal bond

ABSTRACT: A comparison was made between high-speed deformation pressure
and theoretical strength in the impact region, when fusion of metals occurs. For
an intensive plastic flow, deformation of the surface layers of plates, the genera-
tion of heat in them, and the formation of metallic bonds, it is necessary to achieve
pressures corresponding to the order of theoretical strength. From investigations
it is deduced that the process of high-speed setting is actually determined only by
the elastic properties of the materials, irrespective of their macrostructure.

[Translation of abstract]
Card 1/1, SUB CODE: 13/

possibly related to armor
UDC: 539. 4

18

L 04314-67 EWP(k)/EWT(m)/EWP(t)/ETI IJP(c) JD/IM
ACC NR: AP6018388 (N) SOURCE CODE: UR/0133/66/000/006/0530/0532

AUTHORS: Aleshin, V. A.; Kolmogorov, V. L.; Ural'skiy, V. I.; Sokolov, I. A.; Moiseyev, G. P.; Krovsikov, R. P.; Fotov, A. A.; Pavlov, A. I.; Khoroshikh, Yu. G.

ORG: Pervoural'skiy New Pipe Plant (Pervoural'skiy novotrubnyy zavod); Ural Scientific Research Institute for Ferrous Metals (Ural'skiy n.-1. institut chernykh metallov)

TITLE: Shortcut in the production cycle of cold-rolled pipes

SOURCE: Stal', no. 6, 1966, 530-532

TOPIC TAGS: metal tube, metal drawing, metal rolling, steel / 20 steel, 45 steel, 30KhGSA steel, OKh18N1OT steel

ABSTRACT: An investigation of plasticity after cold rolling of the more widely used steel pipes (20, 30KhGSA, 45, OKh18N1OT) was carried out. The plasticity of the metal (ψ) was determined as a function of the elongation coefficients S_x/S_o of and diameter ratio d_x/d_o . The experimental results are shown graphically (see Fig. 1). The maximum residual stresses were calculated after H. Anderson and G. Fahlman (Journal of the Institute of Metals, 1925, v. 34, No. 3, p. 271-275). It was found that repeated drawing after cold rolling without employing an intermediate thermal treatment yielded pipes with satisfactory mechanical properties. The combined drawing and rolling process permits a shortening of the usual

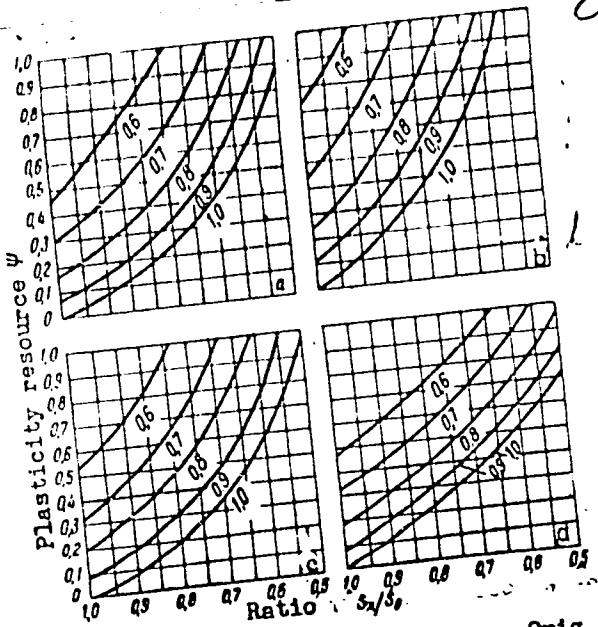
UDC: 621.774.353.37

Cord 1/2

45
B

1 04 14-57
ACC NRI AP6018388

- Fig. 1. Use of the plasticity ψ during short-set drawing of pipes of steels 20 (a), 45 (b), 30KhGSA (c), and Kh18N10T (d); numbers on the curves correspond to the change in pipe diameter d_1/d_0 as a result of drawing. S_x/S_0 = ratio of elongation coefficients.



production cycle, resulting in considerable savings in production costs. Orig.
art. has: 1 table, 2 graphs, and 1 equation.
SUB CODE: 11/ SUBM DATE: none/ OTH REF: 001

Cont 2/2. gph

PAVLOV, A.I., kandidat tekhnicheskikh nauk; USTINOVA, G.A.

Belts made of synthetic materials. Tekst. prom. 16 no.8:
24-26 Ag '56.
(MLRA 9:10)

(Belts and belting) (Leather substitutes)

VADIMOVICH, I.I., kand.tekhn.nauk; PAVLOV, A.I., kand.tekhn.nauk;
ORLOV, I.V., kand.tekhn.nauk

Investigating the properties of interfacing fabrics and inter-
linings. Izv. vys. ucheb. zav.: tekhn.leg. prom. no.3:93-104
'58. (MIRA 11:10)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Textile fabrics)

PAVLOV, A.I.

Effect of standard fabric fulling conditions on wool fiber properties. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.6:11-19 '58. (MIRA 12:4)

1. Kiyevskiy tekhnologicheskiy institut lejkoy promyshlennosti.
(Woollen and worsted manufacture)

POZHIDAEV, Nikolay Nikolayevich, dotsent; PAVLOV, Anatoliy Ivanovich, dotsent; VADIMOVICH, Ivan Ivanovich, dotsent; KOVAL'SKIY, Anatoliy Grigor'yevich, inzh.; ZORUK, Vladimir Luk'yanovich, inzh.; ANOKHIN, Viktor Vasil'yevich, inzh.; SERGIYENKO, L., red.; BONDARENKO, O., red.; GUSAROV, K., tekhn.red.

[Textile materials for the clothing industry] Materialovedenie shveinogo proizvodstva. Pod obshchei red. N.N.Pozhidaeva. Kiev, Gos.isd-vo tekhn.lit-ry USSR, 1959. 411 p. (MIRA 13:2)
(Clothing industry) (Textile fabrics)

PAVLOV, A. I., dotsent, kand.tekhn.nauk

~~Nonwoven fabrics. Izv.vys.ucheb.zav.; tekhn.leg.prom. no.2:~~
39-46 '59. (MIRA 12:10)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Textile fabrics)

SUKHAREV, M.I., kand.tekhn.nauk; KARASEV, V.K., kand.tekhn.nauk; PAVLOV, A.I.; kand.tekhn.nauk. dots.; VADIMOVICH, I.I., kand.tekhn.nauk, dots. KOVALSKIY, A.G., inzh.; ZORUK, V.L., inzh.

"Fabrics for the clothing industry" by T.A. Modestova, L.N. Flerova, B.A. Buzov. Reviewed by M.I. Sukharev and others. Izv. vys.ucheb.zav.; tekhn.leg.prom. no.2:111-116 '59. (MIR, 12:10)

1. Leningradskiy tekstil'nyy institut im. S.M. Kirova (for Sukharev, Karasev). 2. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti (for Pavlov, Vadimovich, Koval'skiy Zoruk).

(Textile fabrics) (Clothing industry) (Modestova, T.A.)
(Flerova, L.N.) (Buzov, B.A.)

PAVLOV, A.I., kand.tekhn.nauk, dotsent; POZHIDAYEV, N.N., kand.tekhn.nauk,
dotsent; SIMONENKO, D.F., inzh.

New abrasion tester for textile fabrics and knit goods. Izv.
vys. ucheb. zav.; tekhn. leg. prom. no. 1:30-37 '60. (MIRA 14:5)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy materialovedeniya.
(Textile fabrics—Testing) (Knit goods—Testing)

PAVLOV, A.I., kand.tekhn.nauk, dotsent

Third scientific and methodological conference of the representatives
of high educational institutions on textiles. Izv. vys. ucheb.
zav.; tekhn. leg. prom. no. 1:144-155 '60. (MIRA 14:5)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Textile fabrics—Research)

PAVLOV, A.I., kand.tekhn.nauk, dotsent; POZHIDAYEV, N.N., kand.
tekhn.nauk, dotsent; SIMONEHKO, D.P., inzh.

Methods for testing the resistance of textile fabrics
to abrasion on the TI-1 apparatus. Izv. vys. ucheb. zav.:
tekhn. leg. prom. no.2:36-41 '60. (MIRA 13:11)

1. Kiyevskiy tekhnologicheskiy institut legkoy
promyshlennosti. Rekomendovana kafedroy materialovedeniya.
(Textile fabrics--Testing)

PAVLOV, A.I., kand.tekhn. nauk, dotsent; KARPERKO, R.A., inzh.

Hungarian apparatus for testing textiles. Izv. vys. ucheb. zav.; tekhn. leg. prom. no.2:138-144 '60. (MIRA 13:11)

1. Kiyevskiy tekhnologicheskiy institut legkoy promshlennosti.
(Hungary--Textile industry--Equipment and supplies)
(Textile fabrics--Testing)

TURCHINSKAYA, Ye.P., inzh.; IVANOVSKAYA, L.P., kand.tekhn.nauk, dotsent;
PAVLOV, A.I., kand.tekhn.nauk, dotsent

Methods for processing the edges of thermoplastic fabrics in the
mass production of clothing. Report No.2. Izv.vys.ucheb.zav.; tekhn.
leg.prom. no.5:86-94 '60. (MIRA 13:11)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy shveynogo proizvodstva.
(Clothing industry) (Plastics)

PAVLOV, A.I.

Changes occurring in the properties of yarn during the felting of
coarse woolen cloth. Izv. vys. ucheb. zav.; tekhn. teks. prom.
(MIRA 14:5)
no. 2:3-9 '61.

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Woollen and worsted manufacture) (Yarn)

BUZOV, Boris Aleksandrovich; POZHIDAYEV, Nikolay Nikolayevich;
MOLESTOVA, Tat'yana Alekseyevna; PAVLOV, Anatoliy
Ivanovich; FEROVA, Lyudmila Nikolayevna; ZHUK,
Vladimir Luk'yanovich; SADYKOVA, F.Kh., dots., retsenzant;
KUKIN, G.N., prof., red.; GRACHEVA, A.V., red.

[Practical laboratory work on the study of materials for
the clothing industry] Laboratornyi praktikum po materialo-
vedeniiu shveinogo proizvodstva. [By] B.A.Buzov i dr. Mo-
skva, Legkaia industriia, 1964. 439 p. (MIRA 18:2)

L 22975-66 IJP(c)/BWT(n)/BWP(j)/T/ETC(n)-6/BWA(1)/BWP(v) IJP(c) IG/WN/GS/RM/
ACC NR. AT8008655 (A) WE SOURCE: UR/0000/65/000/000/0113/0123

AUTHORS: Lorinskij, M. G., (Moscow); Vishnevskij, G. Ye., (Moscow); Pavlov, A. I.

ORG: none

TITLE: A study of the temperature and time dependence of the strength and durability of sheet glass plastics AG-4S and KF-S under tension, compression, and shear in conditions of programmed one-sided heating. ¹³

SOURCE: Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy prochnosti materialov i konstruktsionnykh elementev pri vysokikh i nizkikh temperaturakh. 3d. Termoprochnost' materialov i konstruktsionnykh elementov (Thermal strength of materials and construction elements); materialy soveshchaniya. Kiev, Naukova dumka, 1965, 113-123

TOPIC TAGS: glass plastic, glass product, synthetic material, thermal property, heat stability/ IMASH-11 material testing machine, AG-4S glass plastic, KF-S glass plastic

ABSTRACT: The authors describe the IMASH-11 machine which was designed and developed at the Moscow Institute of Machine Science (Institut mashinovedeniya) for the purpose of determining strength and deformation properties of sheet

Cord 1/2

L 22975-66

ACC NR: AT6008655

plastic specimens. The machine is designed for shear, tension, and compression testing in conditions of automatic programmed one-sided heating of specimens up to 1300° with a temperature increase rate of up to 50° per second in air and in an enclosed gas medium. A movable electric oven open on one side is used for maintaining the programmed temperature. Regulation of the specimen temperature is effected by automatically varying the distance between the oven and the specimen surface. The construction and the methods of conducting tests with the IMASH-11 machine are described by M. G. Lozinskiy and G. Ye. Vishnevskiy (*Ustroystvo dlya izucheniya zakonomernostey deformatsii i razrusheniya obratsov*, Byulleten' izobreteniy, 1963, No. 9). The authors describe the conduct and results of tests performed to measure the variation of the strength of sheet specimens of glass plastics AG-4S and EF-S with the level of initial constant stress. Strength and durability characteristics of the materials were measured in conditions of tension, compression, and shear. The IMASH-11 machine is shown in a schematic diagram, and a photograph shows the mounting of an RFK-1 camera used in recording shear deflections. Orig. art. has: 4 tables, 6 figures, and 1 photograph.

SUB CODE: 11/ SUBM DATE: 19Aug65/ ORIG REF: 007

Cord 2/2 Sc

Y 21733-66 EWT(m)/T/EWP(j)/ETC(m)-6 WW/RM

ACC NM AP6005401

(A)

SOURCE CODE: UR/0323/65/000/005/0016/0020

AUTHOR: Turchinskaya, Ye. P. (Engineer); Pavlov, A. I. (Docent, Candidate of Technical sciences) 32

ORG: Kiev Technological Institute of Light Industry (Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti) B

TITLE: Investigation of the thermoplastic properties of caprone fabrics. Equipment for thermal processing of thermoplastic fabrics and the mode of operation of heat cutters and sealers (Report No. 2) 15

SOURCE: IVUZ. Tekhnologiya legkoy promyshlennosti, no. 5, 1965, 16-20

TOPIC TAGS: thermoplastic material, caprone, heat sealer, heat cutter

ABSTRACT: The effect of short-time temperatures of 300 to 800°C on the structure and physical and mechanical properties of fibers has been analyzed. The design of two types of special apparatus permitting the practical use of properties of thermoplastic materials for obtaining the corresponding effects was worked out by the authors. Orig. art. has: 2 figures and 1 table. [NT]

SUB CODE: 11/ SUBM DATE: 10Mar65/ ORIG REF: 002/

Cord 1/1 1ng 9

(N) L 25567-66 ENT(m)/EXP(v)/EXP(j)/T/EXP(t)/ETC(m)-6/ENT(k) IJP(s)
ACC NR: AM6004742 JD/SW/HM/RM Monograph UR/ 49
47 B+1

Pavlov, Aleksandr Ivanovich

Adhesive ship structures (Kleyennye sudovyye konstruktsii) Leningrad, Izd-vo "Sudostroyeniye", 1965. 282 p. illus., biblio. 2,200 copies printed

TOPIC TAGS: glue welding, metal gluing, ship, ultimate strength

PURPOSE AND COVERAGE: The book deals with materials and glues used to prepare glued ship structures from lumber, plastic, and metal. Principal attention is paid to a description of the construction of the hulls of seagoing vessels and inland-waterway vessels made of glued lumber and wood-based laminated plastics. Data on the strengths of these constructions are presented. The experience accumulated in shipbuilding and in many other branches of industry on the gluing of metals and various nonmetallic substances is summarized. Information is presented on laminated structures with light filler and on glued-welded structures. The book is intended for engineering and technical workers in design offices and plants of the shipbuilding industry. It can be used as a text by students of shipbuilding departments of higher institutions of learning and those in technical schools.

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- Introduction - - 3
Sec. I. Materials and glues for glued structures - - 7
Ch. I. Materials used to manufacture glued ship structures - - 7
Ch. II. Glues - - 18

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UDC: 629.12.011.7

L 25567-66

ACC NR: A46004742

- Ch. III. Principles of the gluing process - - 43
Ch. IV. Response of glued joints of wood structures to different loads - - 59
Sec. II. Structures of glued lumber - - 73
Ch. V. Joints used in glued structures - - 73
Ch. VI. Structures of seagoing vessels and their preparation - - 114
Ch. VII. Strength of glued elements of the hull and of the spars - - 147
Sec. III. Glued structures of metal and glass plastic - - 161
Ch. VIII. Use of gluing in metallic structures - - 161
Ch. IX. Strength of glued joints in metallic structures - - 181
Ch. X. Metallic structures with light filler - - 209
Ch. XI. Combined glued and spot welded joints and structures - - 218
Ch. XII. Glued joints in structures of plastic materials - - 228
Ch. XIII. Gluing of different materials - - 268

SUB CODE: 13/ SUBM DATE: 22Sep67/ ORIG REF: 093/ OTH REF: 031

Cord 2/2 FW

ACC NR: AP6013478

(A)

SOURCE CODE: UR/0345/65/000/006/0014/0016

AUTHOR: Turchinskaya, Ye. P.; Evanovskaya, V. P.; Muzychenko, G. I.; Pavlov, A. I.

CRG: none

TITLE: Machine for thermally processing straight sections of thermoplastic fabric

SOURCE: Shveynaya promyshlennost', no. 6, 1965, 14-16

TOPIC TAGS: thermoplastic material, weld heat treatment, sealing device, textile industry machinery

ABSTRACT: A simple device for heat sealing sections of thermoplastic fabric was tested at the Department of Clothing Technology of the Kiev Technological Institute of Light Industry. The electrically grounded device comprises nichrome wire elements connected to an autotransformer providing 0-240 v and adjustably positioned on a counterbalanced frame so that by closing the frame the heated elements will come in contact with the fabric to be processed. The fabric is clamped in position. Capran fabric was sealed by heating with the nichrome filament to 500-600°C for 0.5-1 sec. The nichrome filament was cleaned by increasing voltage to burn off any plastic material; an exhaust system is required to remove the gases. Similar equipment, connected in parallel and semiautomatically controlled, was used in the Kiev Sewing Shop im. Smirnova-Lastochkina. The savings effected by finishing pieces by heat sealing instead of sewing are discussed. Orig. art. has: 3 figures.

SEARCH CODE: 11.13 / SUBM DATE: none

UDC: 687.053.7:677.4

TURCHINSKAYA, Ye.P.; IVANOVSKAYA, V.P.; MIZYCHENKO, G.I.; PAVLOV, A.I.
(Kiyev)

Machine for the thermal sealing of rectilinear cut edges of
thermoplastic fabrics. Shvein, prom. no. 6:14-17 N-D '65
(MIRA 18:12)

UNANYAN, M.P.; KONDRATYeva, G.V.; LOCHMELIS, A.YA.; PAVLYASH, V.A.;
ZEYFMAN, Y.L.; GAMBARYAN, N.I.; MINASYAN, R.S.; KHNRYANTS, G.G.;
KOCHARYAN, S.T.; POZHAK, Ye.M.; KAVETZKYAN, Ye. A.; KORSHAK, L.M.;
ROGOZHIN, I.V.; LAVANKOV, V.A.; TSPYTIAN, G.M.; ZAKHARKIN, D.Y.;
ZAKHARKIN, L.M.; OGHIOBYAN, D.Y.; GEMIN, G.P.; BABUSTKINA,
BLIYEVICH, E.A.

Letters to the editor. Izv. Akad. Nauk. SSSR. Ser. Fiz., No. 1, p. 1-165.

1. Institut ogranicheskoy zhimli im. N.I. Korshaka (for Unanyan, Kondrat'yeva, Lochmelis, Pavlyash, Zeyfman, Gambarian, Minasyan, Khnryants, Kocharyan, Tsyptian, Zakharkin, Ogohobyan, Gemin, Babustkina, Blievich).
2. Institut elementarno-granicheskikh soyedinenii im. Ye. A. Lavankova (for Ro gozhin, Korshak, Pogozhin, Lavankov, Zakharkin, Khnryants, Babustkina, Blievich).

PAVLOV, A.I., kand. tekhn. nauk; KVAL'TS'KIY, A.G. (Koval't's'kiy, A.M.);
BOZHKO, I.Ya.

Problem of the felting of knit fabrics. Izh. prom. No.4:5-15
(MIREA 1965)
O-D '65.

PAVLOV, Aleksandr Ivanovich; AL'SHITS, I.M., kand. tekhn. nauch.,
retsenszert; KUZNETSOV, F.I., inzh., INZHINER, V.F., rektor.
red.; KUSKOVA, A.I., red.

[Bonded ship structures] Kleenye sudovye konstruktsii. Leningrad, Sudostroenie, 1965. 282 p. (MIRA 18-10)

L 64487-65 EWT(m)/EPF(c)/EWP(j)/I/ETC(m) MM/RM
ACCESSION NR: AP5020513 4455

UR/0323/65/000/004/0035/0039

H4,55

AUTHORS: Turchinskaya, Ye. P. (Engineer); Pavlov, A. I. (Candidate of technical sciences, Docent)

25

B

TITLE: Investigation of some thermoplastic properties of capronic fabrics.
Communication 1. Influence of short-duration temperatures 300-800° on the structure and physico-mechanical properties of thermoplastic materials.

SOURCE: IVUZ. Tekhnologiya lekkoj promyshlennosti, no. 4, 1965, 35-39

TOPIC TAGS: caprone, 4455 thermoplastic, polymer, polyamide

ABSTRACT: The effect of short-term heating on the properties of capronic fiber was determined. The fabric was heated for a period of 5 seconds by means of a nichrome heating knife. The effects of three different temperatures were studied, 550, 700, and 800°C respectively. The experimental results are interpreted in terms of five different thermal zones established in the fabric, e.g., a- thermal destruction of fibers, b- melting of fibers, c- viscous flow zone, d- high elastic zone, and e- unaffected zone. A graphical method for the determination of the extent of the various thermal zones is presented. Orig. art. has: 1 table, 1 graph, and 2 photographs.

Cord 1/2

L 64487-65

ACCESSION NR: AP5020513

ASSOCIATION: Kiyevskiy tehnologicheskiy institut legkoy promyshlennosti (Kiev
Technological Institute for Light Industry)

SUBMITTED: 10Mar65

ENCL: 00

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SUB CODE: GO

NO REF SOV: 000

OTHER: 000

llc
Card 2/2

L 4989-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(c)/ETC(m) WH/RM

SOURCE CODE: UR/0062/65/000/010/1912/1913

ACC NR: AP5027695

44.55
AUTHOR: Korshak, V. V.; Tseytlin, G. M.; Pavlov, A. I. 44.55

30
29
B

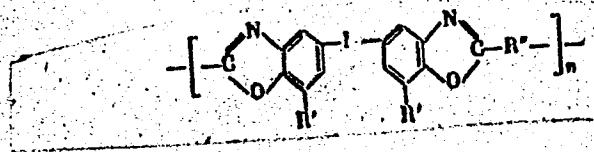
ORG: Moscow Institute of Chemical Technology im. D. I. Mendeleyev (Moskovskiy
khimiko-tehnologicheskiy institut); Institute of Heteroorganic Compounds, Academy of
Sciences SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR)

44.55
TITLE: Synthesis of new polybenzoxazoles

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1965, 1912-1913

TOPIC TAGS: benzoxazole, polybenzoxazole, heat resistant polymer, polymer solubility

ABSTRACT: In addition to the known polybenzoxazoles based on 3,3'-dihydroxybenzidine or 3,3'-diamino-4,4'-dihydroxybiphenyl, new polybenzoxazoles with various substituents between the benzoxazole rings and in the benzene ring of the benzoxazole group have been obtained with the following general structure:



UDC: 542.91

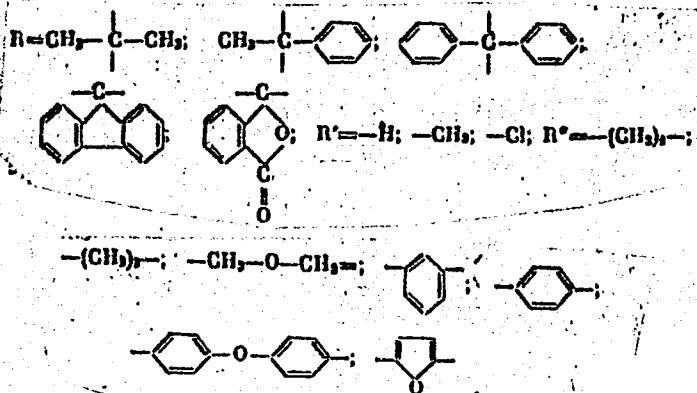
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Card 1/2

L 4989-66

ACC NR: AP5027695

where



The polymers obtained are highly heat resistant:¹⁵ their weight loss starts at 300 to 400°C for aliphatic, and at 400–500°C for aromatic substituents R'' (see above). They are soluble in a wide variety of organic solvents, such as chloroform, tetrachloroethane, tricresol, benzyl alcohol, pyridine, dimethylformamide, etc., except for polymers with a halogen in the side chain and those with the phthaloyl radical at the central carbon atom. The above-mentioned benzidine-based polyoxazoles are noted for their limited solubility, mainly in sulfuric or formic acids. Polybenzoxazoles with aromatic R'' become insoluble after heating to 450°C. Orig. art. has: 1 formula. [BN]

SUB CODE: OC, GC/ SUBM DATE: 08J. ORIG REP: 002/ OTH REP: 003/ ATD PRESS:
Card 2/2 4131

L 65187-65 EWT(m)/EPP(c)/EWP(j)/T/EWA(c)/ETC(m) KW/RK

ACCESSION NR: AP5018084

UR/0020/65/163/001/0116/0118

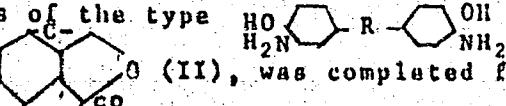
AUTHOR: Korshak, V. V., (corresponding member AN SSSR); Tsvetlin, G. M.; Pavlov, A. I.

TITLE: Synthesis of polybenzoxazoles

SOURCE: AN SSSR. Doklady, v. 163, no. 1, 1965, 116-118

TOPIC TAGS: heat resistant polymer, polybenzoxazole, aromatic polybenzoxazole, polymer solubility, internal plasticizer

ABSTRACT: In developing methods for the synthesis of heat resistant polymers, the condensation of diphenyl sebacate, isophthalate or terephthalate with dihydroxydiamines of the type



where R is either $-C(CH_3)_2-$ (I) or

the purpose of obtaining more soluble polybenzoxazoles. It was assumed that the bridging radicals contribute to the backbone, and the side groups serve as internal plasticizers. The formation of polymers

Card 1/2

L 65137-65

ACCESSION NR: AP5018084

passed the stage of polyhydroxyamides (at 160-200°C), followed by the condensation to polyoxazoles at temperatures above 220°C. Polymers with the bridging radical I had good solubility in most organic solvents, while those with radical II (even those based on sebacate), dissolved only in concentrated sulfuric acid. Heating this polymer above 275°C resulted in the loss of even this solubility. This was explained as further cross-linking and the formation of a three-dimensional structure by means of the phthaloyl rings, while the hydroxyamido structure remained intact. The results of thermogravimetric analysis indicated high thermal stability of the polymers obtained. The fully aromatic polybenzoxazoles began to decompose at 500°C. Orig. art. has: 2 formulas, 1 table, 1 figure. [BN]

ASSOCIATION: Moscow Institute of Chemical Technology im. D. I. Mendeleyev

SUBMITTED: 25Jan65

ENCL: 00

SUB CODE: GC, MT

NO REF SGV: 007

OTHER: 006

Card 212 11/11

PAVLOV, A.I., starshiy izz. po zhivotnym resursam i deniyam (Leningrad)

Plant reliable cattle guards with 1 plt. Khoz. F.n.d. 14. 7. 1950
MIRA 1950.

POZHIDAYEV, N.N., kand.tekhn.nauk, dotsent; PAVLOV, A. I., kand.tekhn.nauk, dotsent
KU-500 twist counter and methods for its operation. Izv.vys.ucheb.zav.;
tekhn.leg.prom. no.1:192-198 '63. (MIRA 16:3)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy materialovedeniya.
(Textile machinery) (Yarn—Testing)

KRYUCHKOV, Yuriy Semenovich; LAPIN, Viktor Ivanovich; KURBATOV, D.A.,
inzh., retsenzent; PAVLOV, A.I., kand. tekhn. nauk, retsenzent;
OSKOL'SKIY, A.A., nauchnyy red.; LISOK, E.I., red.;
CHISTYAKOVA, R.K., tekhn. red.

[Sail catamarans] Parusnye katamarany. Leningrad, Sudpromgiz,
1963. 300 p. (MIRA 16:5)
(Boatbuilding) (Catamarans)

PAVLOV, A.I.

Changes in the physomechanical properties of rough wool cloth
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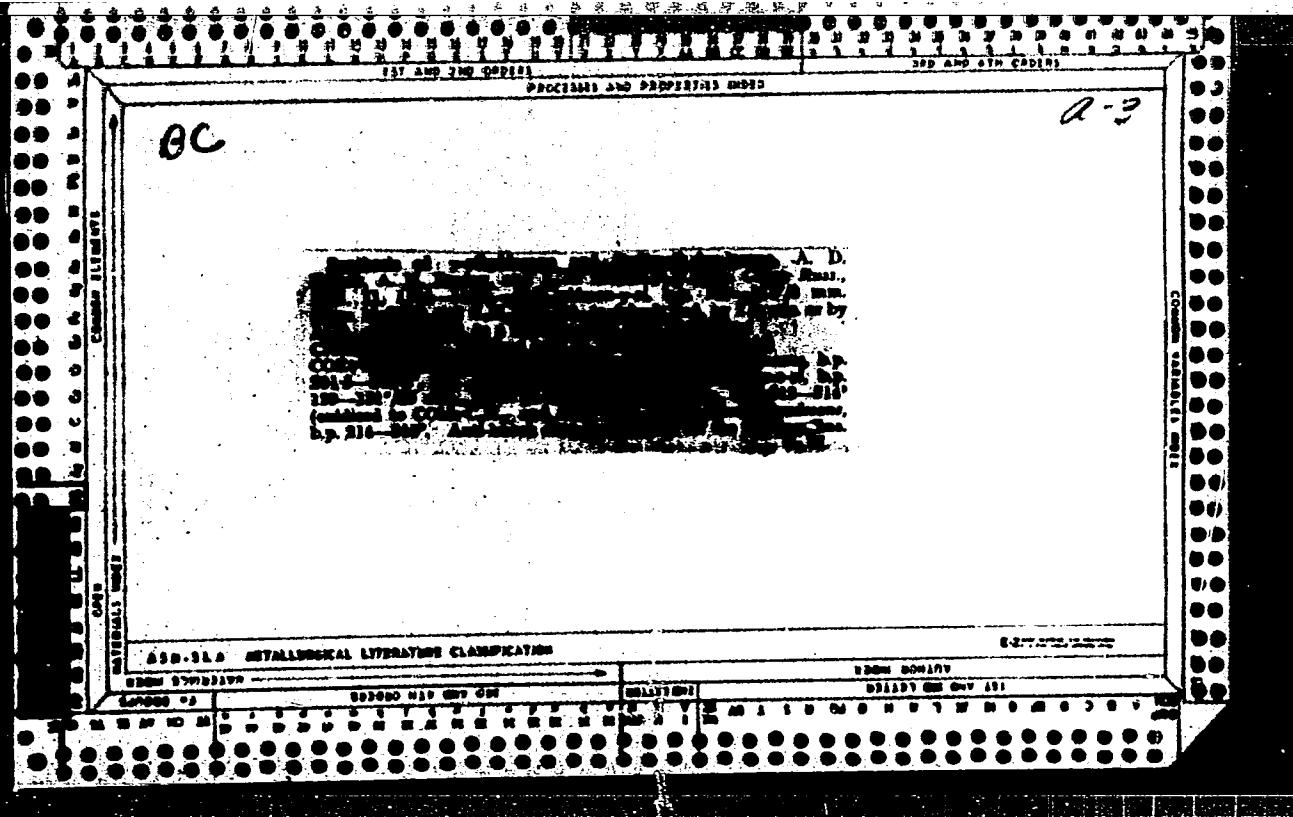
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